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Certificate No.: TC-4545

Format No: CP/TP/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-08-13-03 **Date: 16-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Hanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-03 /01
Sample Type	:	ACC 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ; IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-08-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.44	-
2	Finess by Air permeablity method (m^2/kg,Min)	289.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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R KARTHIK RECHAN
Authorised Signatory
Quality Manager

16/8/18

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-08-13-03** **Date: 11-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-03 /01
Sample Type	:	ACC 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	14-08-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-08-13-03** **Date: 16-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-03 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-08-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	489	489	3.3	96.7	90-100
3	20 mm	5147	5636	37.6	62.4	30-70
4	10 mm	6488	12124	80.8	19.2	10-35
5	4.75 mm	2488	14612	97.4	2.6	0-5
6	Pan	388	15000	100.0	0	---

12/8/18

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-08-13-03** **Date: 16-08-18**

Sample ID No : 2018-08-13-03 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.28	–

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-08-13-03**

Date: 16-08-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-18

Sample ID No : 2018-08-13-03 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 13-08-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	156	242	24.2	75.8	60-95	75-100	85-100	95-100
4	1.18 mm	166	408	40.8	59.2	30-70	55-90	75-100	90-100
5	600 micron	178	586	58.6	41.4	15-34	35-59	60-79	80-100
6	300 micron	185	771	77.1	22.9	5-20	8-30	12-40	15-50
7	150 micron	156	927	92.7	7.3	0-10	0-10	0-10	0-15
8	Pan	73	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-08-13-03**

Sample ID No : 2018-08-13-03 /03

Date: 16-08-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	4.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 25/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2018	25/08/2018	150.23 X 150.44 X 150.35	22601	8.205	255.4	11.3	11.8
2	PCC	M15	18/08/2018	25/08/2018	149.63 X 151.34 X 150.74	22645	8.243	283.1	12.5	
3	PCC	M15	18/08/2018	25/08/2018	149.72 X 151.72 X 150.36	22716	8.175	265.8	11.7	

Note:

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BBMP, Bangalore - 97

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-20-02** **Date: 15/09/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2018	15/09/2018	149.11 X 151.23 X 149.65	22550	8.159	410.4	18.2	18.2
2	PCC	M15	18/08/2018	15/09/2018	150.37 X 15.42 X 150.63	2319	8.176	41.5	17.9	
3	PCC	M15	18/08/2018	15/09/2018	150.49 X 150.11 X 150.47	22590	8.205	417.9	18.5	

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Vidyaranyapura Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2018-08-20-02**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/08/2018

Date: 25/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2018	25/08/2018	149.85 X 149.85 X 151.22	22455	8.152	251.5	11.2	11.7
2	PCC	M15	18/08/2018	25/08/2018	150.35 X 150.49 X 150.32	22626	8.324	278.3	12.3	
3	PCC	M15	18/08/2018	25/08/2018	149.72 X 151.85 X 150.38	22735	8.208	261.5	11.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-20-02**

Date: 15/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2018	15/09/2018	150.34 X 149.82 X 150.34	22524	8.149	389.7	17.3	
2	PCC	M15	18/08/2018	15/09/2018	150.98 X 150.35 X 150.22	22700	8.073	410.9	18.1	17.7
3	PCC	M15	18/08/2018	15/09/2018	149.65 X 150.49 X 150.45	22521	150.940	398.6	17.7	

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID = CP-2018-08-2042 Date: 20/08/2018

Customer = Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address = Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name = Providing Missing Covering Slab at Ranjappa Layout, Ramachandrapura and Doddabommasandra in ward No.19(Doddabommasandra), Vidyaranyapura Sub Division.

Agency = Sri.S.Venkatellappa, Contractor, #530, Kaliyamma Temple road, Kavempuragara 2nd Stage, Bangalore-560 010

Customer's Reference = BBMP/EE/SUP/WO/61/2018-19

Source of Sample = Sample supplied by Agency

Sample Condition = Satisfactory

Date of Receipt = 20-08-18

Sample ID No = 2018-08-20-02 /01

Customer ID = PCC

Sample Type Size = 150X150X150 mm

Sample grade/Age = M15 / 7 Days Compressive Strength

Reference to BIS codes = IS: 516 – 1959 'Methods of Tests for Strength of Concrete Cl.6

Date of test = 25/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2018	25/08/2018	150.22 X 149.99 X 151.46	22396	8.026	280.9	12.5	12.3
2	PCC	M15	18/08/2018	25/08/2018	149.17 X 151.98 X 150.26	22671	8.016	269.8	11.9	
3	PCC	M15	18/08/2018	25/08/2018	150.27 X 149.02 X 150.32	22393	8.176	277.7	12.4	

Note:
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Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-20-02** **Date: 15/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2018	15/09/2018	148.90 X 151.05 X 150.32	22491	8.166	407.1	18.1	17.5
2	PCC	M15	18/08/2018	15/09/2018	150.78 X 150.33 X 149.22	22667	8.154	394.4	17.4	
3	PCC	M15	18/08/2018	15/09/2018	148.19 X 151.32 X 151.90	22424	8.143	383.5	17.1	

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/08/2018

Lab ID	:	**CP-2018-08-20-02**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2018	25/08/2018	151.43 X 150.41 X 150.87	22777	8.176	282.4	12.4	12.1
2	PCC	M15	18/08/2018	25/08/2018	151.66 X 150.26 X 150.42	22788	8.114	268.9	11.8	
3	PCC	M15	18/08/2018	25/08/2018	150.26 X 150.18 X 150.27	22566	8.154	273.0	12.1	

Note:
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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-20-02** **Date: 15/09/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2018	15/09/2018	149.48 X 150.54 X 149.22	22503	8.165	405.0	18.0	17.6
2	PCC	M15	18/08/2018	15/09/2018	150.65 X 150.34 X 151.32	22649	8.252	389.6	17.2	
3	PCC	M15	18/08/2018	15/09/2018	151.88 X 150.15 X 150.11	22805	8.194	401.4	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-22-05**

Date: 27/08/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-08-18

Sample ID No : 2018-08-22-05 /01

Customer ID : M20 Cocrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	150.44 X 149.63 X 150.58	22510	8.156	402.9	17.9	18.2
2	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	151.00 X 149.65 X 150.44	22597	8.144	420.3	18.6	
3	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	150.47 X 150.86 X 150.78	22700	8.125	410.9	18.1	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/09/2018

Lab ID	:	CP-2018-08-22-05
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-08-18
Sample ID No	:	2018-08-22-05 /02
Customer ID	:	M20 Cocrete(RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	149.68 X 150.47 X 150.22	22522	8.145	522.5	23.2	23.2
2	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	150.47 X 150.98 X 150.24	22718	8.163	520.2	22.9	
3	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	150.66 X 150.78 X 150.99	22717	8.201	531.6	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-22-05** **Date: 27/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-08-18

Sample ID No : 2018-08-22-05 /03

Customer ID : M20 Cocrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	150.79 X 149.63 X 150.77	22563	8.201	415.2	18.4	17.9
2	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	150.47 X 150.56 X 150.75	22655	8.254	405.5	17.9	
3	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	150.04 X 150.98 X 150.74	22653	8.262	396.4	17.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-22-05** **Date: 17/09/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-08-18
Sample ID No	:	2018-08-22-05 /04
Customer ID	:	M20 Cocrete(RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	151.36 X 150.87 X 150.47	22836	8.201	534.4	23.4	23.1
2	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	150.67 X 150.98 X 150.42	22748	8.152	518.7	22.8	
3	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	151.85 X 150.64 X 150.78	22875	8.156	528.4	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/

Lab ID	:	**CP-2018-08-22-05**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalor 560 010
Customer's Reference	:	BBMP/EE/BTP/WO/81/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-08-18
Sample ID No	:	2018-08-22-05 /05
Customer ID	:	M20 Cocrete(RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/08/2018

Date: 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	151.22 X 149.63 X 150.47	22627	8.204	418.6	18.5	18.2
2	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	150.47 X 150.98 X 150.44	22718	8.165	406.7	17.9	
3	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	150.63 X 150.85 X 150.66	22723	8.144	411.3	18.1	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-22-05 **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-08-18

Sample ID No : 2018-08-22-05 /06

Customer ID : M20 Cocrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	151.02 X 150.69 X 150.47	22757	8.201	532.5	23.4	23.1
2	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	150.44 X 150.98 X 149.85	22713	8.166	520.1	22.9	
3	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	150.14 X 151.66 X 150.46	22770	8.059	526.0	23.1	

Note:
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-22-05

Date: 27/08/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-08-18

Sample ID No : 2018-08-22-05 /07

Customer ID : M20 Cocrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	149.67 X 150.44 X 150.74	22516	8.021	425.6	18.9	18.3
2	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	150.99 X 150.85 X 150.88	22777	8.198	412.3	18.1	
3	M20 Cocrete(RMC)	M20	20/08/2018	27/08/2018	149.86 X 150.44 X 150.78	22545	8.245	401.3	17.8	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-08-22-05

Date: 17/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slab at Nanjappa Layout, Ramachandrapura and Doddabommasandra in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, Contractor, #530, Kaliyamma Temple road, Kuvempunagara 2nd Stage, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/81/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-08-18

Sample ID No : 2018-08-22-05 /08

Customer ID : M20 Cocrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	151.98 X 151.47 X 150.77	23020	8.023	538.7	23.4	23.4
2	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	150.74 X 150.06 X 150.75	22620	8.196	522.5	23.1	
3	M20 Cocrete(RMC)	M20	20/08/2018	17/09/2018	150.11 X 150.76 X 150.38	22631	8.154	536.3	23.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

12/10/18

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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